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JSS GIFT REGULATIONS

for

Research Dominant

Appendix Research Dominant

Research- dominant M.Sc.-Honors (M.Tech.) pathway for Research – enthusiastic scholars and working professionals, qualified with an appropriate 4-year degree.

Preamble:

National Education policy.2020, proposes to encourage research enthusiastic candidates to pursue research studies subsequent to the completion of a 4-year degree program. Although it is possible that they can register for Ph.D., some of them could feel that Ph.D. degree program could be a longer route, and they would like to receive a master's degree by research to get into suitable professions. Equally, these are highly motivated working professionals, who would like to reorient their professional journey into research based one. Although they could register for Ph.D., they may also desire to give an initial try to get a master's degree by research. Hence, this appendix to regulations provides alternate research – dominant based pathway for the award of M.Sc.-Honors (M.Tech.) for candidates qualified with a minimum of 4 years degree in an appropriate discipline.

A.1 An alternate research- dominant / Dual pathway

Proposed 2 years - 4 semesters program leading to the award of M.Sc.-Honors for the candidates who have a minimum 4 years degree qualification in a suitable discipline is similar to M.Tech./M. E. program in India or M. S. program abroad. Subsequent to a 4-year degree such as B.E., B.Tech., B.Sc.–Honors, B.S., conventional M.Tech./M.E./M.S. programs are course work based with project / research work towards partial fulfilment. However, the proposed M.Sc.-Honors by research pathway is dominantly research based and the course work is going to be supportive to the proposed research work by a candidate.

It may be noted that the proposed research dominant dual pathway for M.Sc. Honors is identical to M.Sc. – Engineering by research of I.I.Sc., M.S. by research of I.I.Ts

This program, being richly research oriented Master's degree program, enhances the research culture and encourages working industrialists/professionals /scientists/engineers/technocrats/teachers to improve their qualification. Working professionals will have the option to complete their degree programs opting for slower pace.

A .2 Eligibility for Admission

A.2.1 Candidates who satisfy the following three conditions are eligible to seek admission

I. The candidate should have an M.Sc. degree or equivalent degree OR should have an appropriate 4-year degree or equivalent such as B.Sc. – Honors / B.S., / B.E., / B.Tech., / M.B.B.S., / B. Pharm. / with an overall minimum of 60% of marks or C.G.P.A of 6.5 in a10-point scale. However, working professionals with a minimum of 5 years of experience in a specific discipline of knowledge may seek exemption.

II. The candidate should have a strong inclination for research and should be well acquainted with the state-of-art intelligent technologies, which should be provable/demonstratable.

III. The candidate should be a working professional and his/ her area of proposed research work should originate from and /or relevant to his /her profession/organization.

OR

The candidate should have been hired by a research investigator / an institution as full-time project assistant/research assistant / J.R.F./ S.R.F. on a research project/ Teaching assistant for at least 24 months' duration.

OR

The candidate should get a sponsorship or fellowship by any external agency/industry or should clearly demonstrate a self-supporting arrangement and should be able to sustain for at least 24 months as a regular scholar.

OR

A regularly employed / self-employed person who can afford to go with a slower pace only, has to put in at least 30 months to complete the requirement.

A.2.2 Application for M.Sc.-Honors by research program shall be open round the year, and admissions made will be aligned with the commencement of the next semester.

A.3 Credit Requirement

Credit requirement will be similar to conventional M.Sc.- Honors degree as a post 4 years degree program. For the sake of clarity, the part of the Table 1 from section 5 is reproduced:

M.Sc.-Honors degree as a post 4-year degree program	68 credits
M.Sc.-Honors degree with add-on Graduate Diploma	68 + 16 credits

A regular scholar may register for a max of 20 credits/ semester accumulating a min of 68 credits over 4 semesters

A candidate may opt for slow-pace and can earn the required 68 credits over 8 semesters (double the regular duration). A slower pace candidate should at least put in 30 months to complete the degree requirements.

While a regular candidate may seek an extension by 4 more semesters (additional 2 years), a slower pace candidate's request for extension may be considered for an extension by one more year (2 semesters) after the completion of the permissible duration of 8 semesters.

A candidate may earn an Add-on Diploma by earing 16 add-on credits, as per the provisions.

A.4 Program Structure

A.4.1 Every candidate who seeks admission will be attached to a guide / an advisor from the institution who will be the mentor for the candidate till he/she completes the program.

A.4.2 At a given point of time, a guide / an advisor may have a maximum of 6 candidates with him / her registered for M.Sc. Honors by research program.

A.4.3 A prospective candidate may be required to convince the selection committee constituted by the institution about the area of his research interest, relevance of his research interest to his profession/ organization, support mechanism available for him/ her to complete the research requirements and above all his/her aptitude for research studies, and his preparedness to take up the program.

A.4.4 Before the formal commencement of the program, the candidate in consultation with his/her guide (advisor) should have decided the area in which he/ she would undertake research. An appropriate title for the research project and an abstract should also be prepared.

A.4.5 Based on the area/topic proposed for the research project, the guide (advisor) will propose the course work to be undertaken by the candidate and will coordinate the completion of course work by the candidate.

A.4.6 The suggested distribution of credits for undertaking the course work and research work is as follows-

Category of courses	**Credits**
Advanced level Breadth specific courses relevant to research area chosen.	12 credits
Research area-based Depth specific courses	12 credits
Research-orientation courses	12 credits
Research Project	32 credits

A.4.6.1 Each course suggested for breadth, depth, and research orientation may be of 4 credits, preferably of the type 1:2:1 / 1:1:2 / 1:3:0 / 1:0:3. The course of type 2:1:1 / 2:2:0 / 2:0:2 may also be considered. The central idea is that the candidate must put in the best self-effort.

A.4.6.2 The candidate may attend the ongoing classes and earn the credits, if the courses are offered in the ongoing semester. Otherwise, the candidate will be attached to a suitable faculty member to earn the credits.

A.4.6.3 The guide/advisor will be wholly responsible for the candidate to complete the credit requirements for the research project.

A.4.6.4 For every candidate, a progress review committee will be constituted, which will consist of 2 experts, one of them is the guide himself/herself acting as the coordinator of the committee and the other may be chosen from within the institution or from sister institution or from other/ external organization/company / institution. In case the research is inter-disciplinary in nature, and the guide expresses the willingness to have one more expert in the review committee, a third member may be appended.

A.4.6.5 The breadth, depth and research orientation credits tallying to 32 credits, should generally be earned in the first two semesters. The sequence in which the courses have to be studied over semesters should also be indicated by the guide.

A.4.6.6 The research project, in a normal mode, should be carried out in 3rd and 4th semesters. The progress review committee will design a suitable structure for formative assessment (FA-1,2,3,4) and

summative assessment for 70% and 30% respectively as per the regulation, individually for 3rd and 4th semesters.

For the purpose of summative assessment of the thesis submitted, after the completion of 4th semester, there will be an adjudication committee consisting of the following three members.

i. Guide

ii. Other member from the progress review committee and

iii. An external expert (chosen from a panel of 3 external experts proposed by the progress review committee/guide)

A.4.6.7 However, before submitting the thesis for final adjudication, the candidate should have earned all pre-requisite credits and should have completed the formative assessment requirement for the thesis work in the 4th semester.

A.4.8 Suitable honourable exits as per GIFT regulation may be admissible.

A.4.9 A candidate may be permitted to change the title and scope of research on recommendation of the research review committee/guide provided the area of research remains same.

A.4.9.1 If the candidate desires to change the area of research, he /she may get at most the advantage of transfer of credits by way of credit equivalence.

A.4.9.2 Change of guide may be considered in case of drastic change in the area of research and if the allocated guide expresses so.

A.5 The candidate may submit his willingness to continue for Ph.D. after submission of dissertation for M.Sc.-Honors degree by research.

